

USSR / Microbiology. Medical and Veterinary Microbiology. P-5

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 21936

were divided in the following order: intestinal rods, staphylococcus, streptococcus, enterococcus, and pneumococcus. In 46 samples of 15 corpses there were found 5 kinds of anaerobes: B. bifidum, Cl. perfringens, grampositive rods, anaerobic staphylococci, anaerobic streptococci. Strict anaerobes comprised only 10.8% of the total number of microbes separated.

Card : 2/2

-4-

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Effect of dietotherapy on the microflora of the intestines and the distribution of enteropathogenic serotypes of Escherichia coli. Vop. okh. mat. i det. 7 no.3:9-14 Mr '62. (MIRA 15:5)

1. Iz kafedry fakul'tetskoy pediatrii (zav. kafedroy - deystvitel'nyy chlen AN SSSR zasluzhennyy deyatel' nauki prof. M.S.Maslov [deceased]) i kafedry mikrobiologii (zav. kafedroy - prof. V.M.Berman) Leningradskogo pediatricheskogo meditsinskogo instituta (dir. - dotsent Ye.P.Semenova).
(INTESTINES--MICROBIOLOGY) (DIET IN DISEASE)
(ESCHERICHIA COLI)

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Stableness of the antigenic structure of separate enteropathogenic
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33 no.2:125-126 F '62. (MIRA 15:3)

1. Iz Leningradskogo pediatricheskogo meditsinskogo instituta.
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'62.

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Chief Engineer, Stankinprom (-1944-)

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BR 52059019

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Improvement of metal-cutting machines during the year 1948. Recommendations, as a way of further improvement, the development of more progressive types of cutting machines, more improved systems of automatic control, and more comprehensive theoretical investigation of the bases of machining, in general.

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KOLOKOLOV, N.M., doktor tekhn.nauk; KEDROV, A.I., kand.tekhn.nauk;
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Accelerated and simplified method of laboratory diagnosis of
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mikrobiologii i gigiyeny, Gor'kovskiy institut epidemiologii,
mikrobiologii i gigiyeny, Moskovskiy pediatricheskiy nauchno-
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Eine Automatische Fabrik. Berlin, Aufbau-Verlag, 1954.

39 p. Illus. (Vortrage Zur Verbreitung Wissenschaftlicher Kenntnisse No 62)

Translation from the Russian: Zavod Automat.

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[Modernization of milling machines] Modernizatsiya frezernykh stankov. Moskva, Vsesoiuznoe uchebno-pedagog. izd-vo Trud-rezervizdat, 1954. 44 p. (MLRA 7:12)
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Gidravlicheskie oborudovanie metalloobrabatyvalushchikh stankov;
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(Machine tools) (Metal cutting)

PROKOPOVICH, A. Ye.

USER/ Engineering - Cutting of metals

Card 1/1 Pub. 128 - 5/25

Authors : Prokopovich, A. Ye., Engineer

Title : The problems of accuracy of mechanical machining on automatic lines

Periodical : Vest. mash. 35/4, 19-26, Apr 1955

Abstract : Extensive material is presented on the accuracy of metal machining on automatic production lines. The six basic stages for the evaluation of accuracy of a machined part are listed. The great number of factors leading to errors in metal machining is discussed. It is stated that the nature of change in dimension or form of the object machined can be experimentally and theoretically established with a certain acceptable degree of accuracy. The laws governing the change in dimension or form of details occurring during mechanical machining are general for both automatized and anonautomatized production lines. Tables; graphs.

Institution :

Submitted :

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VASIL'YEV, V.A.; PROKOPOVICH, A.Ye., redaktor; IVANOVA, N.A., redaktor
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[Modernization of gear-cutting machines; instructions] Moderni-
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(Gear-cutting machines)

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[Antifriction spindle supports for high-speed lathes, turret lathes,
and milling machines] Shpindel'nye opory kacheniia bystrokhodnykh
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(Machine tools--Attachments)

PROKOPOVICH, A. Ye.

RIVKIN, A.I.; KHITRUK, M.S.; PROKOPOVICH, A.Ye., red.; SHEMSHURINA, Ye.A.,
red.izdatel'stva; MATVEIEVA, Ye.N., tekhn.red.

[Modernization of interior grinding machines; practical instructions]
Modernizatsii vnutrishlifoval'nykh stankov; rukovodiashchie
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[Modernization of surface grinders; a guide] Modernizatsiia plosko-
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IVANOVA, N.A., red.izdatel'stva; MATVEYEVA, Ye.N., tekhn.red.

[Reconditioning automatic one-spindle turret lathes; instructions]
Modernizatsiya tokarno-revol'vernykh odnoshpindel'nykh avtomatov;
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1. Moscow. Eksperimental'nyy nauchno-issledovatel'skii institut
metallorezhushchikh stankov.

(Lathes)

PROKOPOVICH, A. Ye.

AUTHOR: ENIMS (Experimental Scientific Research Institute of Metal-cutting Machine Tools) Call Nr: TJ187.M6

TITLE: Modernization of Gear-Milling and Hobbing Machine Tools. (Modernizatsiya zubofrezernykh stankov) Guidance Materials (Rukovodyashchiye materialy.)

PUB. DATA: Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo mashinostroitel'noy literatury, Moscow, 1957, 82 pp., 9,000 copies

ORIG. AGENCY: Ministerstvo stankostroitel'noy i instrumental'noy promyshlennosti SSSR

EDITOR: Chief Ed: Prokopovich A. Ye.; Compiler: Filatov, V.P.; Chief Ed. of Publishing House for Metal Processing and Machine Building: Beyzel'man, R. D.; Tech. Ed: Tikhanov, A. Ya. and Matveyeva, Ye. N.

PURPOSE: The monograph is intended for engineers and technical personnel of machine building plants and also for chief plant mechanics. Its purpose is to present guidance

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Call Nr: TJ187.M6

Modernization of Gear-Milling and Hobbing Machine Tools. (Cont.)

materials for selection of the means of modernization of gear-cutting machine tools employed by machine-building plants.

COVERAGE:

The monograph reviews the basic measures of modernization of gear-milling machine tools. These measures are designed to increase the productivity, precision, and stability of gear-milling machine tools, and also to expand their exploitation potential. The monograph is illustrated with examples of modern machine tool designs and represents in general an attempt to portray the experience of Soviet and foreign machine-building enterprises. According to the figures of the Central Statistical Administration, the USSR had as of January 1956 approximately 1.76 million machine tool units. The annual production of metal-cutting machine tools is to reach in 1960 about 200,000 units. There are 46 references, of which 26 are USSR and 20 American and English.

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Call Nr: TJ187.M6

Modernization of Gear-Milling and Hobbing Machine Tools. (Cont.)

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Modernization of Gear-Milling and Hobbing Machine Tools. (Cont.)

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SHEMSHURINA, Ye.A., redaktor izdatel'stva; TIKHONOV, A.Ya.,
tekhnicheskiy redaktor

[Modernization of cylindrical grinding machines; manual of
instructions] Modernizatsiya krugloshlifoval'nykh stankov;
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(MLRA 10:8)

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GLADKOV, B.A.; KASATKIN, A.G.; KUDINOV, V.A.; PROKOPOVICH, A.Ye., red.;
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[Modernization of single-spindle multicutter lathes; instructions]
Modernizatsiia odnoshpindel'nykh tokarnykh mnogoreztsovykh stankov;
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VEDERNIKOV, A.I.; ~~PROKOPOVICH, A.Ye.~~, redaktor; BALANDIN, A.F.,
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(lathes)

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[Modernization of knee and column type milling machines; instructions]
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Increasing Labor Productivity in Machine Building (Voprosy povysheniya
proizvoditel'nosti truda v mashinostroenii) Gosudarstvennoye nauch-tekh.
izdat. mashinostroitel'. literatury, Moscow, 1957. 511 pp.

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This collection presents a comparative tech. and economic analysis of
most effective methods and industrial processes for obtaining high labor productivity
in machine building. Output may be stepped up by further standardization of machine
tools, materials, and production methods; drawing on unused potentials.
Covers all stages of planning and production as performed in modern plants of
USSR, actual experience, and new methods are discussed.

PROKOPOVICH, A. Ye., "Evaluation of the Technical Efficiency of Metalworking
Processes," p. 101.

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PROKOPOVICH, A.Ye.

New 1-k-62 universal lathe. Politekh.obuch. no.2:50-59 F '57.
(MLRA 10:5)

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instituta metalloreshushchikh stankov.
(Lathes)

ZHDANOV, A.I.; LEVANOVA, Ye.A.; BASINA, N.S.; SERGEYEVA, G.N.; KHROMOVA,
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modernizing of metal cutting machines; instructions] Rukovodstvo
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PROKOPOVICH, A.Ye., red.; LAZAREV, Yu.M., tekhn.red.

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KASHEPAVA, M.Ye.; TEREKHINA, Ye.I.; KUDINOV, V.A.; LAPIDUS, A.S.; AZAREVICH,
G.M.; PROKOPOVICH, A.Ye., red.; SHEPESHURINA, Ye.A., red.izd-va;
EL'KIND, V.D., tekhn.red.

[Modernization of universal horizontal boring machines; instructions]
Modernizatsiia universal'nykh gorizonta'l'no-rastochnykh stankov;
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PROKOPOVICH, A.Ye., red.; ALEKSEYEVA, T.V., tekhn.red.

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(Machinery) (Automatic control)

GLADKOV, B.A., GRACHEV, L.N., LEVIT, G.A., LAPIDUS, A.S., LESHCHENKO, Yu.A.
KUDINOV, V.A., PROKOPOVICH, A.Ye., red.; IVANOVA, N.A., red.izd-va.,
TIKHANOV, A.Ya., tekhn.red.

[Modernization of vertical turning lathes] Modernizatsiia tokarno-
karusel'nykh stankov. Pod red. A.E. Prokopovicha. Moskva, Gos.
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 265 p. (MIRA 11:9)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut
metallorazhreshchikh stankov.
(Lathes)

PROKOPOVICH A Ye

GLADKOV, B.A.; GRACHEV, L.N.; SHPIGEL'SHTEYN, P.M.; KUDINOV, V.A.; LAPIDUS, A.S.; AZAREVICH, G.M.; LESHCHENKO, Yu.A.; PROKOPOVICH, A.Ye.; IVANOVA, N.A., red. izd-va; MATVEYEVA, Ye.N., tekhn. red.

[Modernization of lathes; instructions] Modernizatsiya tokarnykh stankov; rukovodiashchie materialy. Pod red. A.Ye. Prokopovicha. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 286 p. (MIRA 11:7)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorazhreshchikh stankov.

(Lathes)

PROKOPOVICH, A.Ye.

25(1.6) PHASE I BOOK EXPLICATION 307/1592

Atkadeiya nauk SSSR. Institut mashinovedeniya

Osnovnye voprosy tochnosti i vzaimosmenyemosti i tekhnicheskikh izmereniy v mashinostroyenii (Basic Problems of Accuracy, Interchangeability and Engineering Measurements in Machine Building) Moscow, Mashgis, 1958. 411 p. 4,500 copies printed.

Ed.: A.M. Gavrilov, Doctor of Technical Sciences, Professor, Tech. Ed.: B.I. Medel', Managing Ed. for Literature on Metal Working and Tool Making (Mashgis); R.D. Baytsel'man, Engineer.

PURPOSE: This collection of articles is intended for engineering and scientific workers and for teachers and students of machine and instrument building vtuases.

COVERAGE: This collection of articles presents the works of a conference on basic problems of accuracy, interchangeability and engineering measurements convened in March 1956 by the Machine Building Scientific Commission of IMASH AN SSSR (Institute of Machine Building Construction of the Academy of Sciences, USSR), the State Committee for Modern Technology, the Committee for Standardization, the State Committee for Weights and Measuring Instruments under the Council of Ministers, USSR, the Ministries for Machine Building and the Ministry of Higher Education of the USSR. In the articles dealing with accuracy of fabrication, problems of the theory and practice of calculating accuracy of standard processes, and interchangeability and engineering measurements an evaluation of the present state of this field is presented along with the scientific and engineering outlook for the future. Theoretical and practical problems of automatic inspection are discussed. No personalities are mentioned. There are 140 references of which 121 are Russian, 10 German, 8 English, 1 French.

TABLE OF CONTENTS:

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Prokhorovich, A.Ye., Engineer. Accuracy of Manufacturing Processes on Automated Lines	197
Kasatkov, I.P., Candidate of Technical Sciences. Tolerances for Making Fixtures and Wear of Component Parts	214
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PROKOPOVICH, A Ye.

PHASE I BOOK EXPLOITATION

SOV/2580

25(5)

Avtomatizatsiya proizvodstva (Automation of Production) Moscow, Izd-vo "Znaniye," 1959. 31 p. (Series: Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy. Seriya IV, 1959, Nr 17) 47,500 copies printed.

Sponsoring Agency: Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy.

Ed.: T. F. Islankina; Tech. Ed.: L. Ye. Atroshchenko.

PURPOSE: This pamphlet is intended for the general reader.

COVERAGE: The three articles comprising this pamphlet discuss the status of automation of machinery-manufacturing operation, review the prospects automation of the chemical industry and briefly describe computing devices necessary for automating production processes. No personalities are mentioned. There are no references.

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SOV/2580

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Kirikov, G. N., Director, OKB avtomatiki Gosudarstvennogo komiteta po
khimii (Automation Design Bureau, State Committee on Chemistry). Prospects
for automation in the Chemical Industry

14

Fel'dbaum, A. A., Doctor of Technical Sciences, Professor. Computing
Devices in the Automation of Production Processes

25

AVAILABLE: Library of Congress

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GO/mg
11-9-59

Prokopenko, B. A.

25(1,5)

PHASE I BOOK EXPLOITATION

SOV/2367

Moscow. Vysshaya partiynaya shkola. Kafedra promyshlennogo
proizvodstva i stroitel'stva

Dostizheniya nauki i tekhniki i peredovoy opyt v promyshlennosti
i stroitel'stve. vyp. 4: Tekhnologiya mashinostroyeniya
/obrabotka metallov rezaniyem/ (Achievements in Science and
Technology and Advanced Practices in Industry and Civil Engin-
eering. Nr 4: Machine-building Technology /Metal Cutting/)
Moscow, Izd-vo VPSH i AON pri TsK KPSS, 1959. 189 p. 20,000
copies printed.

Ed. (Title page): G.I. Pogodin-Alekseyev, Doctor of Technical
Sciences, Professor; Eds. (Inside book): A.G. Kokoshko and
R.D. Beyzel'man; Tech. Ed.: K.M. Naumov.

PURPOSE: This collection of papers is intended for engineers,
technicians, and students associated with metal cutting.

COVERAGE: This collection of papers deals with scientific achieve-
ments and progressive methods in metal cutting; improvements in
the technology of machinery construction; technical progress

Card 1/4

Achievements in Science (Cont.)

SOV/2367

in machine-tool and instrument construction; and designs for the automation of metalworking machine tools and transfer machines. No personalities are mentioned. There are no references.

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Achievements in Science (Cont.)

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AVAILABLE: Library of Congress
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GO/ec
10-20-59

PROKOPOVICH, A.

Factory of the future. MTO no.4:30-32 Ap '59. (MIRA 12:6)

1. Zamestitel' direktora Eksperimental'nogo nauchno-issledovatel'-
skogo instituta metallorezhushchikh stankov.
(Machine-tool industry)

(

SOV/25-59-5-7/56

AUTHOR: Prokopovich, A. Ye., Engineer

TITLE: From Automatic Lines to Automatic Plants

PERIODICAL: Nauka i zhizn', 1959, No. 5, pp 10-16 and page 1 of center-fold (USSR)

ABSTRACT: Since 1946, the author is Chief Engineer and Deputy Director of the scientific research work done by the Eksperimental'nyy nauchno-issledovatel'skiy institut metallovezhushchikh stankov (ENIMS) - (Experimental Scientific Research Institute of Metal-Cutting Machine Tools). Based on his experience, he gives a detailed description of automatic lines in general, and their importance for achieving complex automation i.e. fully-automatic plants. During the new Seven Year Plan, 1,300 automatic lines are to be introduced in machine building enterprises. The collective of the Pervyy gosudarstvennyy podshipnikovyy zavod (First State Bearing Plant) has developed plans for achieving automatic production of 80 to 90% of its output during 1959 - 1965. According to "The Control Figures of the USSR National Economy During 1959 - 1965", about 50 ex-

Card 1/2

SOV/25-59-5-7/56

From Automatic Lines to Automatic Plants

perimental enterprises are planned in various industrial branches for the demonstration of complex automation schemes. The following Seven-Year Plan provides for 1,000 such plants. There are 4 photos, 2 drawings, and 1 colored illustration.

ASSOCIATION: Eksperimental'nyy nauchno-issledovatel'skiy institut metal-lorezhusnchikh stankov (Experimental Scientific Research Institute of Metal-Cutting Machine Tools).

Card 2/2

L 2/398-55 EWT(d)/EWA(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1) Pf-J₁

ACCESSION NR: AP5007518

S/0122/64/000/010/0003/0008

16
13
13

AUTHOR: Prokopovich, A. Ye. (Deputy chairman)

TITLE: Perfecting the technological equipment of the machine-building industry—
an important line of technical progress

SOURCE: Vestnik mashinostroyeniya, no. 10, 1964, 3-8

TOPIC TAGS: machine industry, machine tool industry

Abstract: The author outlines the production and technological achievements of Soviet machine-building in recent years, and indicates some plans for the period up to 1970. In the past 10 years the industry has delivered more than 8,500 sets of modern equipment, 1,500,000 metal-working tools and a large amount of high-efficiency pressing and forging equipment. 14

The industry's 30% increase in metal lathe production from 1958 to 1963 was accompanied by an over-all 200% increase in the output of all types of precision machine tools, including milling and polishing machines (30%), drill presses (150%) and gear cutters (70%). These figures are to be exceeded during 1964-1965. The 1970 output of precision machine tools should be 120 - 150% over the 1963 level.

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ACCESSION NR: AP5007518

(150 - 200% in the case of high- and extrahigh-precision tools). By 1970, tools for finishing operations in grinding and adapting should represent not less than 60 - 65% of the total annual output of all machine tools.

There is a current lack of precision equipment, notably jig boring machines, gear- and thread-grinding machines and various grinding devices, particularly those of high-precision type. These and other deficiencies in the machine-building industry are to be corrected in part by the development of automation, the introduction of radical changes in the technology of grinding machines, the extensive elimination of obsolescent models, and the standardization of parts and machines. During 1965, 2.5 times as many automatic lines will be introduced as in 1959. Technological improvements are to include the use of fine plastic-deformation, electrochemical and electrophysical methods.

At present, Soviet machine-tool production is said to exceed that of the United States, and the output of forging and pressing equipment to be about equal to it.

ASSOCIATION: Gosudarstvennyy komitet po mashinostroyeniyu pri Gosplane SSSR
(State Committee on Machine-Building Gosplan, SSSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: GO, IE

NO REF SOV: 000

OTHER: 000

JPRS

Card 2/2

PROKOPOVICH, A.Ye.

Urgent problems in increasing technological standards in the
machinery industry. Vest. mashinostr. 44 no.9:3-8 S '64.

(MIRA 17:11)

1. Zamestitel' predsedatelya Gosudarstvennogo komiteta po
mashinostroyeniye pri Gosplane SSSR.

PROKOPOVICH, A.Ye.

Improvement of technical equipment of the machine industry is an important trend in technical development. Vest. mashinostr. 44 no. (MIRA 17:11)
10:3-8 0 '64.

1. Zamestitel' predsedatelyu Gosudarstvennogo komiteta po mashinostroyeniyu pri Gosplane SSSR.

L 16310-65 EWT(d)/EWP(c)/EWP(v)/EWP(k)/EWP(h)/EWP(l) Pf-4
ACCESSION NR: AP5002054 S/0122/64/000/009/0003/0006

AUTHOR: Prokopovich, A. Ye. (Vice president)

TITLE: Important problems in raising the level of machine building technology

SOURCE: Vestnik mashinostroyeniya, no. 9, 1964, 3-8

TOPIC TAGS: machine industry, industrial management

Abstract: A survey of the development of and future plans for the machine building industry is given. At the present time, one third of all industrial workers are involved in the machine building industry. Three quarters of the iron and steel production of the country goes into this industry. The production of the industry in 1963 has increased over that in 1952 by a factor of 2.8. A discussion is given of a large number of sectors of the machine building industry, including their achievements and shortcomings in recent years and development plans for the period 1966-1970. It is noted that an inadequate supply of cold-rolled sheets has made it impossible to use available press equipment to capacity. Materials for tools are not available in sufficient quantity and quality. Several specific alloys

L 16310-65

ACCESSION NR: AP5002054

ASSOCIATION: Gosudarstvennyy komitet po mashinostroyeniyu pri Gosplane SSSR
(State Committee for Machine Building under Gosplan SSSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: GO

NO REF SOV: 000

OTHER: 000

JPRS

Card 2/2

KOSTOUSOV, A.I.; VASIL'YEV, V.S.; GRECHUKHIN, A.I.; DEGTYARENKO, N.S.; PETROCHENKOV, A.G.; PROKOPOVICH, A.Ye.; TELESNOV, A.P.; SHEVYAKOV, L.N.; GONCHAROVA, S.L., nauchn. red.; BORUSHMOY, I.V., red.; LOGINOVA, R.A., red.; MONAKHOVA, N.F., red.; SHCHEGLOVA, I.B., red.; KOVAL'SKAYA, I.F., tekhn. red.

[Machine-tool industry in Japan according to materials from the Machine-tool Exhibition of 1962 in Osaka] Stankostroenie Iaponii; po materialam stankostroitel'noi vystavki 1962 goda v g.Osaka. Moskva, 1963. 473 p. (MIRA 16:12)

1. Moscow. Tsentral'nyy institut nauchno-tekhnicheskoy informatsii po avtomatizatsii i mashinostroyeniyu. (Japan--Machine-tool industry)

PROKOPOVICH, A.Ye.

Problems in the automation of production processes in the machinery
industry. Vest.mash. 41 no.10:3-8 0 '61. (MIRA 14:10)
(Machinery industry) (Automation)

S/122/61/000/010/001/011
D221/D304

AUTHOR: Prokopovich, A.Ye.

TITLE: Problems of automating production processes in engineering

PERIODICAL: Vestnik mashinostroyeniya, no. 10, 1961, 3 - 8

TEXT: During 1959-1960, design and manufacture of 5260 new machines and instruments were completed, and 1200 were either modernized or withdrawn as obsolete. During 1960 over 2000 automatic, semi-automatic and mechanized flow lines were introduced. Costs of mechanization at 378 plants carried out in 1959 was repaid within 1.6 years, whereas expenditure on automation was covered in 1.8 years. Complex mechanization and automation of foundries is of prime importance since 40 - 80 % of machine weights and 20 % of their labor is formed by castings. It is planned to achieve a 65 % foundry mechanization by 1965, coupled with a 20 % automation. The next period envisages complete mechanization and 60 - 80 % of automated foundry output. No less than 50 % of thermal equipment may be

Card 1/4

Problems of automating production ...

S/122/61/000/010/001/011
D221/D304

working in automated cycles by 1965. The ratio of mechanized machining has attained 90 - 95 %. The level of mechanization and technology of painting is low. Auxiliary work, such as handling, warehousing, control, etc. is also insufficiently mechanized. An example is given of the change-over from automatic lines to complex automated sections at Machine Tool Works "Krasnyy proletariy", and the Tool Plant "Freezer". The collective of NIITraktorosel' khozmash developed automatic equipment for roller chains which increases output by 7.4 times. Several prototype pilot plants are earmarked for testing the most advanced technological processes. The automation planned by 1980 involves the introduction of 60,000 automatic lines, including 6000 for foundries, 12,000 in forging and pressing, and over 40,000 for machining and assembly. This requires accelerated development of machine tools output. In 1960, 154,000 metal cutting, 29,500 forging and pressing, 6,000 foundry and 90,000 welding machines were manufactured. The ratio of foundry equipment for precision casting in the period 1959-1960 increased from 21 to 26 %. The output of die casting machines went up by 47 %, automated centrifugal mixers by 43 %, automatics and semi-automatics by

Card 2/4

Problems of automating production ...

S/122/61/000/010/001/011
D221/D304

70 %. Qualitative changes in forging and pressing equipment for 1955-1960 are characterized by a rise in output of automatic units by 2.7 times, forging machines by 6 times, whereas the production of hammers remained the same. Progress in machine tools is illustrated by the introduction of 1020 new types during 1961 as compared to 788 in 1955. Production of precision lathes during 1960 increased by 75.7 %, that of centerless grinders by 46.1 %, copy millers by 28.8 %, when related to 1959. Boring mills with a capacity up to 22 m, gear cutters up to 12 m, planomillers and planers with tables of 5 x 15 m and other special units were manufactured. Types of automatic and semi-automatic units increased from 250 in 1955 to 436 in 1960, whereas special purpose machines went up from 346 to 500. Advancements were made in program-controlled machine tools, and a three-fold increase of automatic lines is seen in 1959-1960. Productivity of machine tools made during 1956-1960 was 25 % higher than that of the existing stock. Output of machine tools during the 7-Year Plan ending in 1966 will reach 270,000 forging and pressing units 55,000 per year. Industry has modernized 160,000 machine tools and 26,000 presses in recent years. It is planned that auto-

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Problems of automating production ...

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D221/D304

matic lines of unit machine tools will form 15 % of the total, lines of special purpose and automatic machine tools 10 %, whereas lines with general purpose machine tools 50 %. Formation of automatic lines is most effective when based on general purpose equipment.

Card 4/4

S/118/61/000/002/031/000
A161/A126

AUTHOR:

Prokopovich, A.Ye.

TITLE:

Development of complex mechanization and automation in machine industry

PERIODICAL:

Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 2, 1961, 1-8

TEXT:

The article is a general review appraising the present position and including statistical figures showing the numbers of machinery available in the USSR, the output at the time being, and data of the Seven-Year-Plan 1959-1965. The trend is to mechanize and automate entire shops and plants. In Moscow alone, this development is in progress in 27 existing enterprises, as well as in 139 plant shops and departments. The 1775 (IGFZ) bearing plant is being automated, and a 75% output increase is expected as the result; the Moskovskiy avtomobil'nyy zavod im. Likhacheva (Moscow Automobile Plant im. Likhachev) is also being converted into a fully automated plant, as well as the "Krasnyy proletariy" (machine tool plant) and the "Prezer" (tools). The Gor'kovskiy avtomobil'nyy zavod (Gor'kiy Automobile Plant) plans to have 136 automatic lines, 1,400 special automatic machine tools, and to raise the output 1.5 times. The

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S/118/61/000/002/001/007
A161/A126

Development of complex mechanization ...

NII Traktorsel'khoz mash research institute developed the equipment for an automatic plant that will produce 500,000 m block chains annually for farming machinery. It is stated that the mechanization and automation plan set by the government presents a giant task, for the present level is low. Only 50% of work is mechanized in foundry production and only 5% automated, and the plan for 1965 is 65% mechanization and 20% automation. The foundry production is being specialized, and over 1,000 small foundries and shops will be closed down in a few years to be replaced by new large mechanized shops and entire plants of specialized production. In forging shops there are about 150 automatic lines, and automation has reached only 7% of the total equipment; presses are mostly working with manual loading, the mechanization in heat treatment is on a very low level. There are only a few single machines available for simple assembly work (assembly of ball and roller bearings at the LGPZ, for printed circuits in radio industry, etc.). The lack of machines is obvious. Only 25% of handling and store work is mechanized, and this by trucks and motor carts. A number of "model" plants will be built, using modern, most advanced processes and automatic equipment. More than 20 such "model" plants are planned for the machine industry, and 3 for the instrument industry. Their experience will be used by 320 machine plants and 80 instrument plants. The dimensions, characteristics and designs of machinery has

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S/118/61/000/002/001/007
A161/A126

Development of complex mechanization ...

still to be standardized. The assembly unit principle is used to a relatively large scale in machine tool industry, but this only in the field of drilling, boring and milling machines. Program-controlled machine tools are being produced since 1960, 14 models in all, in several plants: im. Sverdlov, at the machine tool plants of Gor'kiy, Dmitrov and Odessa. The low quality of automation means being produced is stressed, and the fact is mentioned that it happens that new machine tools from special plants produce less than the obsolete, and the new machines have to be debugged first by the using plants. The Chelyabinskiy abrazivnyy zavod (Chelyabinsk Abrasives Plant), one of the major suppliers of abrasive cloth, is producing cloth of low quality, about half of it below the standards; same is said of the large abrasives plants in Tashkent and Leningrad. The Novokramatorskiy mashinostroitel'nyy zavod (Machine Plant) is praised for initiative in modernization of old equipment that had been followed by other plants. There are 8 figures and 5 tables.

Card 3/3

PROKOPOVICH, A.Ye.

Development of over-all mechanization and automation in the manufacture of machinery. *Mekh. i avtom. proizv.* 15 no.2:1-8 F '61.

(MIRA 14:2)

(Machinery industry--Technological innovations)

(Automation)

PRCHPOVICH, Arkadiy Yefimovich

Stankostroyeniye V 1950-1965 Gg. Moskva, Mashgiz,
1966.

152 p. Illus., Graphs, Tables. 20 cm.
(Sovetskoye Mashinostroyeniye V 1950-1965 Gg)

PROKOPOVICH, A.Ye.

PHASE I BOOK EXPLOITATION SOV/1358

Trud i tekhnika v sotsializme (Labor and Engineering in the
Seven-Year Plan) Moscow: Profizdat, 1960. 365 p.
(Series: Massovaya biblioteka rabotnogo) 10,000 copies
Printed.

Compiler: S. O. Kravov; Ed.: A. V. Antslov; Tech. Ed.:
A. A. Golichenkova.

PURPOSE: This book is intended for the general reader.

COVERAGE: The book is a collection of 19 articles dealing
with the achievements and progress of the Seven-Year
Plan in branches of the Soviet economy and in science.
Attention is given to power plant construction, machine
building, steel production, production of consumer
products, fertilization of agriculture, and chemistry.
Suggestions for further progress are made. No person-
alities are mentioned. There are no references.

Prokopovich, A. Ye. [Deputy Director, Experimental'nyy
Nauchno-Issledovatskiy Institut metalloobrabatovaniya stankov
i avtomaticheskikh mashin (Scientific Institute of Metal-Cutting
Machine Tools)] From Automatic Machine Tools to Automatic
Production Lines, Shops, and Factories

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Kobrin, A. Ye. [Doctor of Technical Sciences] Program
Control of Machine Tools

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Solodnikov, V. V. [Doctor of Technical Sciences,
Professor] Cybernetics

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USSR] Automation in the Near Future

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"Ognevozrozdnyy" Institute] The Seven-Year Plan and the
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is New in Prospecting for Mineral Resources

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Petrov, N. A. [Candidate of Technical Sciences, Deputy
Chairman, State Scientific and Technical Committee, Council
of Ministers of the USSR] New Engineering for the Creators of
Plenty

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Stoyanov, S. S. [Inspector at the Automation Laboratory,
Central'nyy nauchno-Issledovatskiy Institut khlopkha-
tocheniya (Central Scientific Research Institute of Cotton-
Spinning of the Cotton Industry)] For the welfare of the
People

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Stoyanov, S. S. [Inspector at the Automation Laboratory,
Central'nyy nauchno-Issledovatskiy Institut khlopkha-
tocheniya (Central Scientific Research Institute of Cotton-
Spinning of the Cotton Industry)] Half a Billion Pairs of Shoes
Industry

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Kuznetsov, A. M. [Member, All-Union Academy of Agricultural
Sciences] Large-Scale Mechanization of
Agriculture

325

Zvonkov, V. V. [Corresponding Member, Academy of Sciences
USSR, Honored Scientist and Technologist] A Big Leap

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Explanation of Foreign Terms and Difficult Words Occurring
in the Book

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AC/AF/SC
10/17/80

KOSTOUISOV, A.I.; BRITSKO, K.M.; VOLODIN, Ye.I.; GRECHUKHIN, A.I.; DECTIYA-
BENKO, N.S.; DOBROSKOK, A.N.; MARDANYAN, M.Ye.; MAYDENOV, I.A.;
PROKOPOVICH, A.Ye.; TELYATNIKOV, L.P.; USPENSKIY, Ya.K.; KHLYNOV,
V.N.; PERL'SHTEYN, Ye.A., nauchnyy red.; YEVSEVICHEV, V.I., red.;
BUDOVA, L.G., tekhn.red.; NADEINSKAYA, A.A., tekhn.red.

[Machine-tool manufacture in Japan] Iaponskoe stankostroenie.
Pod obshchei red. A.E.Prokopovicha i M.E.Mardaniana. Moskva, TSentr.
biuro tekhn.informatsii, 1959. 461 p. (MIRA 13:9)

1. Moscow (Province) Oblastnoy sovet narodnogo khozyaystva.
(Japan--Machine tool industry)

PROKOPOVICH, A. V.

PHASE I BOOK EXPLOITATION SOV/4358

Trud i tekhnika v semiletke (Labor and Engineering in the Seven-Year Plan) Moscow, Profizdat, 1960. 365 p.
(Series: Massovaya biblioteka rabocheho) 10,000 copies printed.

Compiler: S. G. Krylov; Ed.: A. V. Anisimov; Tech. Ed.:
A. A. Golichenkova.

PURPOSE: This book is intended for the general reader.

COVERAGE: The book is a collection of 19 articles dealing with the achievements and progress of the Seven-Year Plan in branches of the Soviet economy and in science. Attention is given to power plant construction, machine building, cybernetics, electrification, transportation, prospecting, steel production, production of consumer goods, mechanization of agriculture, and chemistry. Suggestions for further progress are made. No personalities are mentioned. There are no references.

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Labor and Engineering (Cont.)

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PHASE I BOOK EXPLOITATION SOV/3885

Prokopovich, Arkadiy Yefimovich

Stankostroyeniye v 1959 - 1965 gg (Machine-Tool Building in 1959 - 1965) Moscow, Mashgiz, 1959. 152 p. (Series: Sovetskoye mashinostroyeniye v 1959-1965 gg) 3,000 copies printed.

Reviewer: I.G. Grigor'yev, Engineer; Ed.: L.A. Korsov, Engineer; Tech. Ed.: G.V. Smirnova; Managing Ed. for Literature on Metal-working and Instrument Construction (Mashgiz): V.V. Rzhavinskiy, Engineer.

PURPOSE: This book is intended for the general reader.

COVERAGE: The author describes the present state of the Soviet machine-tool building industry and the outlook for its development during the Seven Year Plan (1959 - 1965). Special attention is given to the problems of increasing the degree of automation of machine tools and to the overall automation of machine-building processes. Some 25 tables showing progress in the Soviet machine-tool building industry and a comparison with non-Soviet output of such machine

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Machine-Tool (Cont.)

tools are provided in the text. Numerous pictures of modern Soviet machine tools and transfer machines are presented. No personalities are mentioned. There are no references.

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FURMAN, David Borisovich; PROKOPOVICH, A.Ye., red.; ALEKSEYEVA, T.V.,
tekhn.red.

[Modernization of metal-cutting machine tools] Modernizatsiia
metallorezhushchikh stankov. Moskva, TSentr. biuro tekhn. informa-
tsii, 1958. 45 p. (Modernizatsiia metallorezhushchikh stankov,
no.3). (MIRA 12:10)

(Machine tools)

PROKOPOVICH, Arkadiy Yefimovich; GRIGOR'YEV, I.G., inzh., retsenzent;
KORSOV, L.A., inzh., red.; SMIRNOVA, G.V., tekhn.red.

[Machinery industry in 1959-1965] Stankostroenie v 1959-1965 gg.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959.
152 p. (Sovetskoe mashinostroenie v 1959-1965 gg.).

(MIRA 13:3)

(Machinery industry)

PROKOPOVICH, Azkadiy Yefimovich

Technological development in the machinery industry. Dost. nauki.
i tekhn. i pered. op. v prom. i stroi. no. 4:40-71 '59.

(MIRA 12:10)

(Machinery--Construction)

~~PROKOPOVICH, Arkadiy Yefimovich~~

Metal-cutting machines and automatic production lines. Dost.
nauki i tekhn. i pered. op. v prom. i stroi. no. 4:107-156 '59.
(MIRA 12:10)

(machine tools) (Automation)

PROKOPOVICH, A. Yu. [Prokopovich, A. IU.]

Automatic lines and automatic factories. Nauka i zhyttia 9
no.5:3-7 My '59. (MIRA 12:9)

1. Golovniy inzhener Eksperimental'nogo naukevo-doslidnogo
institutu metalorizal'nikh verstativ (Moskva).
(Automation)

PROKOPOVICH, B. student-izbiornik.

New model drills. Tekhnol. 25 no.6:3 Je '57. (MLRA 10:7)

1. Moskovskiy avtomobil'no-dorozhnyy institut imeni Molotova.
(Cutting tools)

PROKOPOVICH, B., inzh.; BURAVTSEV, S., inzh.; BURAVTSEV, B., inzh.

Selecting adjusting bases in repairing crankshafts. Avt.transp.
42 no.3:28-30 Mr '64. (MIRA 17:4)

PROKOPOVICH, B., inzh.

Wear and deformations of joint faces. Avt. transp. 37 no.10:35-38
0 '59. (MIRA 13:2)
(Automobiles--Transmission devices) (Mechanical wear)

PROKOPOVICH, B., inzh.

Factors affecting changes in the coaxiality of engines and gearboxes.
Avt.transp. 38 no.10:28-31 0 '60. (MIRA 13:10)
(Motortrucks)

GERASIMOVA, A.T. (Leningrad); PROKOPOVICH, B.A. (Leningrad)

Teaching physics in Leningrad schools. Fiz. v shkole 21
no.1:72-75 Ja-F '61. (MIRA 14:9)
(Leningrad—Physics—Study and teaching)

PROKOPOVICH, B.V.

Determining the expenditure of varnish during flow-coating.
Bum. i der. prom. no. 4341-44 O-D '64 (MIRA 18:2)

BRONN, I., Abstract, FROM: IZVESH, D.

Correlation between changes in transaminases and gamma-glutamyl in the blood serum in liver diseases. Sov. med. SF no. 5:100-101, May '86.

(MIRA 18:10)

1. Klinika infektatsionnykh bolezney (zav. - dozent I. Bronn') Meditsinskoy akademii, Belorussk (Bel' na).

PROKOPOVICH, I. E.

AID P - 2593

Subject : USSR/Engineering

Card 1/1 Pub. 35 - 16/20

Author : Prokopovich, I. E., Kand. Tech. Sci. (Comments from
readers)

Title : On designing steel penstocks

Periodical : Gidr stroi, 4, 42-44, Ap 1955

Abstract : The design of efficient steel penstocks is discussed
and a mathematical analysis is used to compute stresses.
Some recommendations are made i.e. the use of the TU-9-51
directive, as established by Prof. P. L. Pasternak.
Four Russian references, 1934-53.

Institution : None

Submitted : No date

PROKOPOVICH, I.Ye. (Odessa)

Effect of creep on the distribution of internal stresses in
orthotropic shells. Inzh.sbor. 24:151-164 '56. (MLRA 10:5)
(Elastic plates and shells) (Creep of materials)

LM
anf

PROKOPOVICH, I.Ya. (Odessa).

Solving the plane contact problem taking creep into consideration.
Prikl. mat. i mekh. 20 no.6:680-687 N-D '56. (MLRA 10:8)
(Deformations (Mechanics)) (Creep of materials)

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AUTHORS: Kakosimidi, N. F., Prokopovich, I. Ye. (Odessa)

TITLE: Solution of the contact problem in creep theory with linear stress-strain dependence

PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 1, 1962, 102 - 108

TEXT: The plane contact problem in the theory of creep with linear stress-strain dependence has been solved by I. Ye. Prokopovich (PMM, 1956, v. 20, no. 6). In the present work the solution is extended to the 3-dimensional problem. Formulae are derived which take creep and ageing into account by means of functions which are introduced into the solution of the elastic problem. These functions are not dependent on the geometry of the contact surfaces. In solving the problem it is presumed that the coefficient of lateral dilatation $\nu^*(t, \epsilon)$ in creep deformation is equal to that coefficient $\nu(t)$ in elastic deformation, not depending on time. Linear stress-strain dependence under such conditions means that the elastic stresses produced by surface forces are equal to the elastic

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Solution of the contact problem...

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stresses which were calculated taking creep into account. Experimental and theoretical investigations show that the assumption $\nu^*(t, \tau) = \nu(t) = \nu = \text{const}$ leads in the determination of the stresses, e. g., in concrete construction to errors of not over 5%, which is within the tolerance of engineering. For ordinary concrete $\nu = 1/6$, $0 < \nu^* \ll 1/6$. Mention is made of I. Ya Shtayerman (Kontaktnaya zadacha teorii uprugosti. Gostekhizdat, M.-L., 1949). The authors thank M. G. Kreyn for his advice. There are 4 figures and 8 references: 7 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: Lee E. H., Radok J. R. M. Stress analysis in linearly visco-elastic materials. Actes. IX Congr. internat. mecan. appl. T. 5. Bruxelles, Univ. Bruxelles, 1957. ✓

SUBMITTED: April 24, 1961

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